

# ANNOUNCEMENT FOR THE POSITION OF POST DOCTORAL RESEARCH ASSOCIATE

Posted Date: 15 July 2016  
Expiration Date: 30 July 2016

Location: Aquatic Ecology Centre, School of Science, Kathmandu University, Dhulikhel  
Secretariat: Chair, Freshwater Science Society USA, South Asia Chapter  
Contact: Dr. Subodh Sharma, Professor and Director of Aquatic Ecology Centre  
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**Duration:** Available EFFECTIVE FROM 1 August 2016, annually renewable depending on performance until APRIL 2019.

**Description:** We are seeking a highly motivated post-doctoral research associate as Work Package (WP) Leader to work on the WP title **Environmental flow assessment and tool development** considering macro-invertebrates in varying river typology, depths and discharge. The work package will explore the opportunity about what needs to be done in terms of the institutional and policy context in an effort to integrate Environmental Flow (EF) into water management policies. It will develop national capacity in EF so that scientists, policy makers, hydropower and irrigation developers and other key organizations are more cognizant of the importance of ecosystem services and also knowledgeable about how to enhance sustainable river basin management. This research project is supported by International Water Management Institute (IWMI).

**Responsibilities:** Responsibilities include identify appropriate watersheds in Karnali River basin, fix adequate locations considering specific criteria in site selection, keeping in mind the EF into water management policies and rivers classified according to typology and linked to macroinvertebrates as indicator species, and livelihood/cultural requirements and a monitoring plan. The candidate shall develop systematic data base of macroinvertebrates and fish diversity, identify key stakeholders at various level (national/sub-national) involving relevant sectors (energy, water, environment, rural development, agriculture); conduct policy review and institutional analysis across scales, map power structure and power relationships; and write up national policy review and institutional analysis.

## **Expected Outputs:**

- Inventory of livelihood, cultural/religious benefits from the river to the basin inhabitants disaggregated by gender, ethnicity, class, caste and religion
- A desktop tool to calculate EF in Nepal and illustration of its application in west Nepal which will include relationships between water flows and river typologies, indicator species and assemblages, and cultural and livelihood metrics.
- Application of biotic index tool to assess the ecological status of rivers, and Incorporation into the e-flow calculator
- EF modules developed together with Nepal partners and introduced in University curricula

- Research publications that will further develop the science of environmental water allocations

**Qualifications:** Must have obtained Ph.D. or equivalent degree by the date of hire and within the last five years. Degree types include Biology, Zoology, Ecology, Environmental Science/Management, Natural Resources, Fisheries, Aquatic Ecology/Limnology or alternate degree fields will be accepted depending on the nature and depth of the experience in identification of macroinvertebrates from Palaearctic and Oriental regions as it relates to this position. Evidence of previous research publications and skills in statistical applications in the field of aquatic ecology will be an added advantage.

**Salary:** as per the rules of Kathmandu University's Research Development & Consultancy-Policy Guidelines and Procedures 2015.

Apply Now: Candidates (only Nepali nationals) are required to fill the Application Form (AVAILABLE AT: <http://ku.edu.np/research/wp-content/uploads/2015/06/Application-form-English.pdf>) and send to [aec@ku.edu.np](mailto:aec@ku.edu.np) (only electronic submission accepted).

Further information can be obtained from:

Director- Research, Development & Consultancy  
Kathmandu University, Central Office, Dhulikhel  
[www.ku.edu.np/research](http://www.ku.edu.np/research)